



IMAGENEX MODEL 852 ULTRA-MINIATURE SCANNING SONAR

APPLICATIONS:

- ROV Navigation
- Diving Support
- Inspection
- Search & Recovery

FEATURES:

- Ultra-miniature size is ideal for mounting on today's micro ROV's
- Continuous rotation
- Low cost
- Direct connection to laptop computer

The Model 852 Digital Imaging Sonar was designed for use with the smallest of ROV's. For maximum flexibility, this is a design with a fluid filled front end and a pressure housing for the electronics. The unit requires approximately 2.5 Watts from 24 VDC, or optional 48 VDC. Serial communication is utilized, RS-485 or RS-232 at 115.2 kbps. This unit will scan a maximum of 360° with a maximum range of 50 meters. The total weight in water is less than 0.2 kg (0.4 lbs).



HARDWARE		
SPECIFICATIONS:		
FREQUENCY	675 / 850 kHz	
TRANSDUCER	Imaging type, fan beam, fluid compensated	
TRANSDUCER BEAM WIDTH	2.5° x 22°	
TRANSMIT PULSE LENGTH	100 microseconds	
RANGE RESOLUTION	20 mm	
MIN. DETECTABLE RANGE	150 mm	
MAX. OPERATING DEPTH	300 m	
MAX. CABLE LENGTH	1000 m on typical twisted shielded pair	
INTERFACE	RS-485 @ 115.2 kbps (RS-232 optional)	
CONNECTOR	IE55-1206-BCR Penetrator	
POWER SUPPLY	22 – 30 VDC at less than 3.6 Watts	
	Optional 40 – 56 VDC	
DIMENSIONS	See drawing	
WEIGHT: In Air	~270 g (0.6 lbs)	
	with 24" pigtail	
In Water	less than 200 g (0.4 lbs)	
MATERIALS	6061-T6 Aluminum & Polyurethane	
FINISH	Hard Anodize	

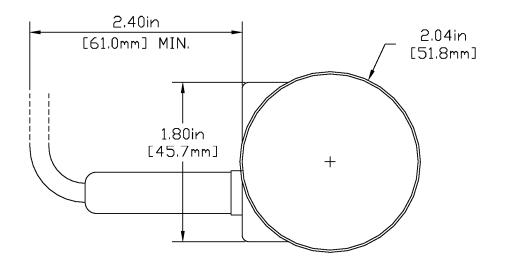
SOFTWARE	Win852.exe	
SPECIFICATIONS:		
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10	
MODES	Polar, Sector, and Sidescan	
RANGE SCALES	5 m, 10 m, 20 m, 30 m, 40 m, 50 m	
SECTOR SIZE:		
SECTOR MODE	0° – 180°, 18° increments	
POLAR MODE	360°, continuous	
STEP SIZES	Normal (2.25°), Fast (4.5°)	
GRID TYPE	Polar	
EXTERNAL INPUT	Depth, Heading, Turns	
FILE FORMAT	(filename).852	
RECOMMENDED	100 MHz Pentium	
MINIMUM COMPUTER	16 MB RAM	
REQUIREMENTS:	1 GB Hard Disk	
	800 x 600 x 256 colour graphics	

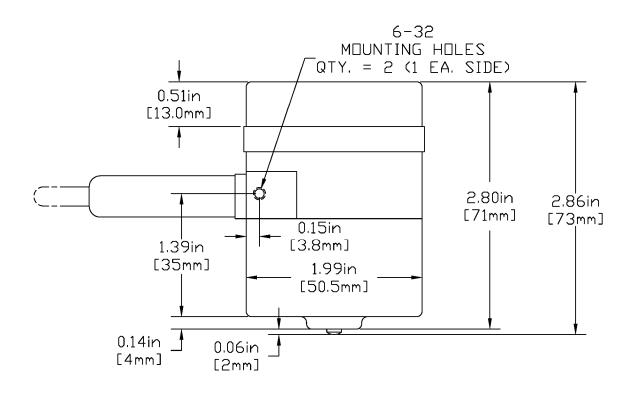
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ORDERING INFORMATION:			
300 m UNIT	Standard	852-000-100	
RS-232	Option	-006	
40 – 56 VDC	Option	-013	

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